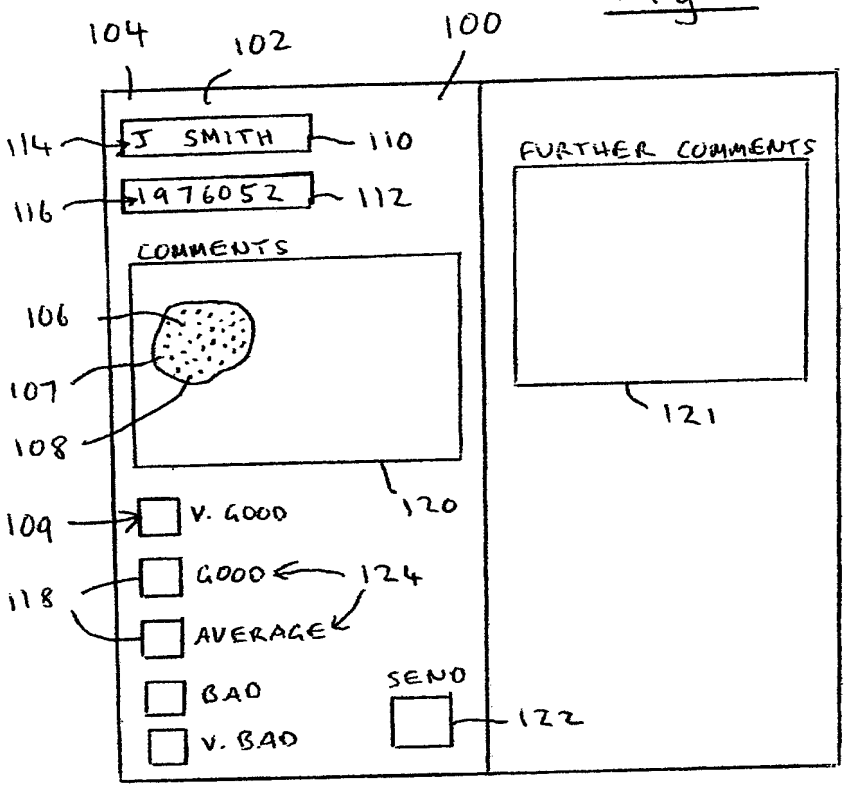
Fig 1


104
102
100
114
J SMITH
110
116
1976052
112
COMMENTS
106
107
108
120
FURTHER COMMENTS
121
109
V. GOOD
GOOD
124
118
AVERAGE
BAD
V. BAD
SEND
122

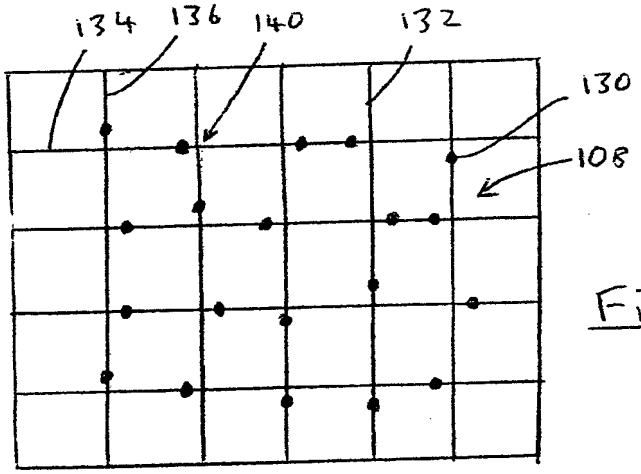

134
136
140
132
130
108

Fig 2

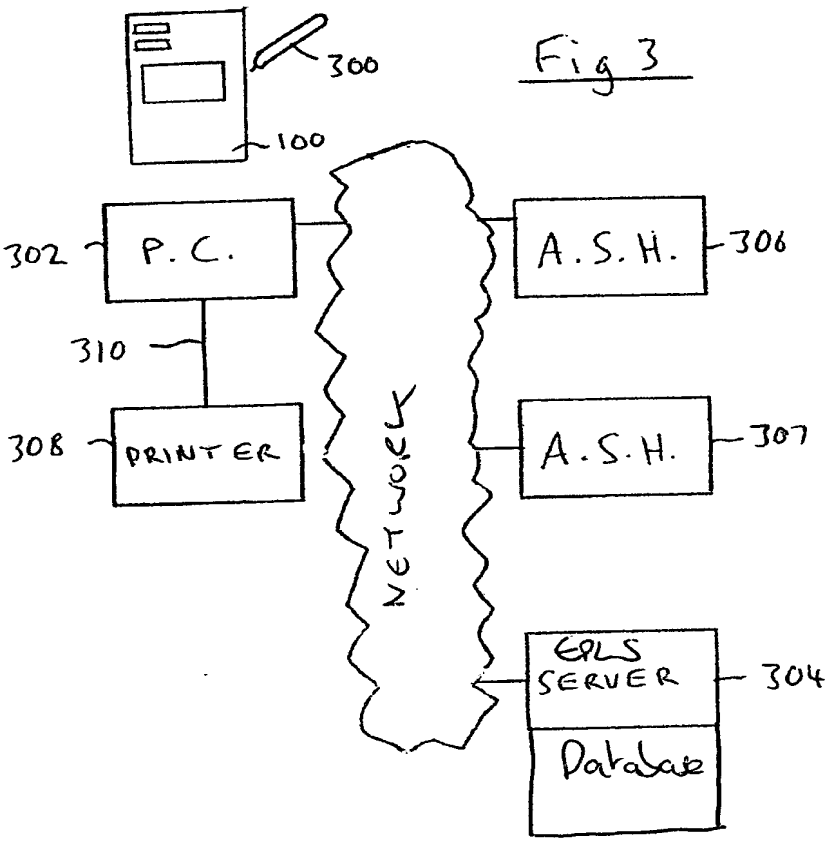
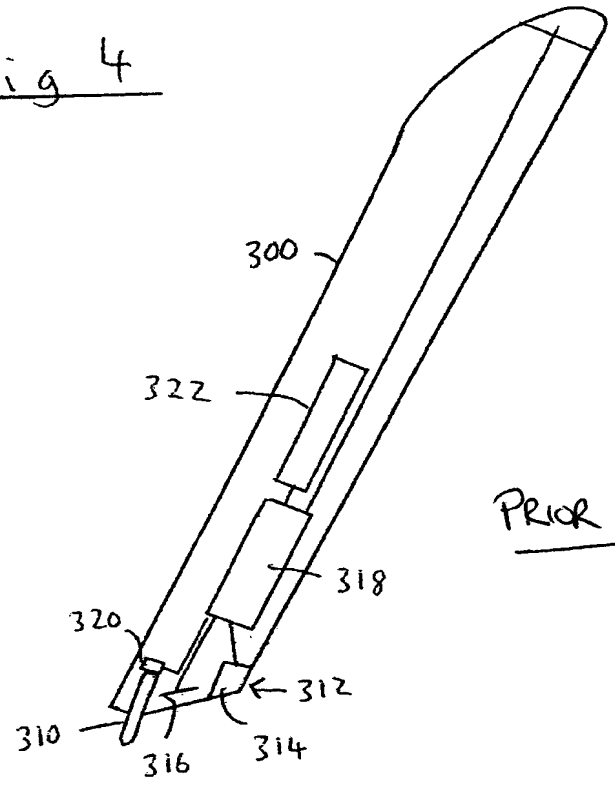

300
100
302
P.C.
310
308
PRINTER
NETWORK
A.S.H.
306
A.S.H.
307
EQLS
SERVER
304
Database

Fig 3

Fig 4



PRIOR ART

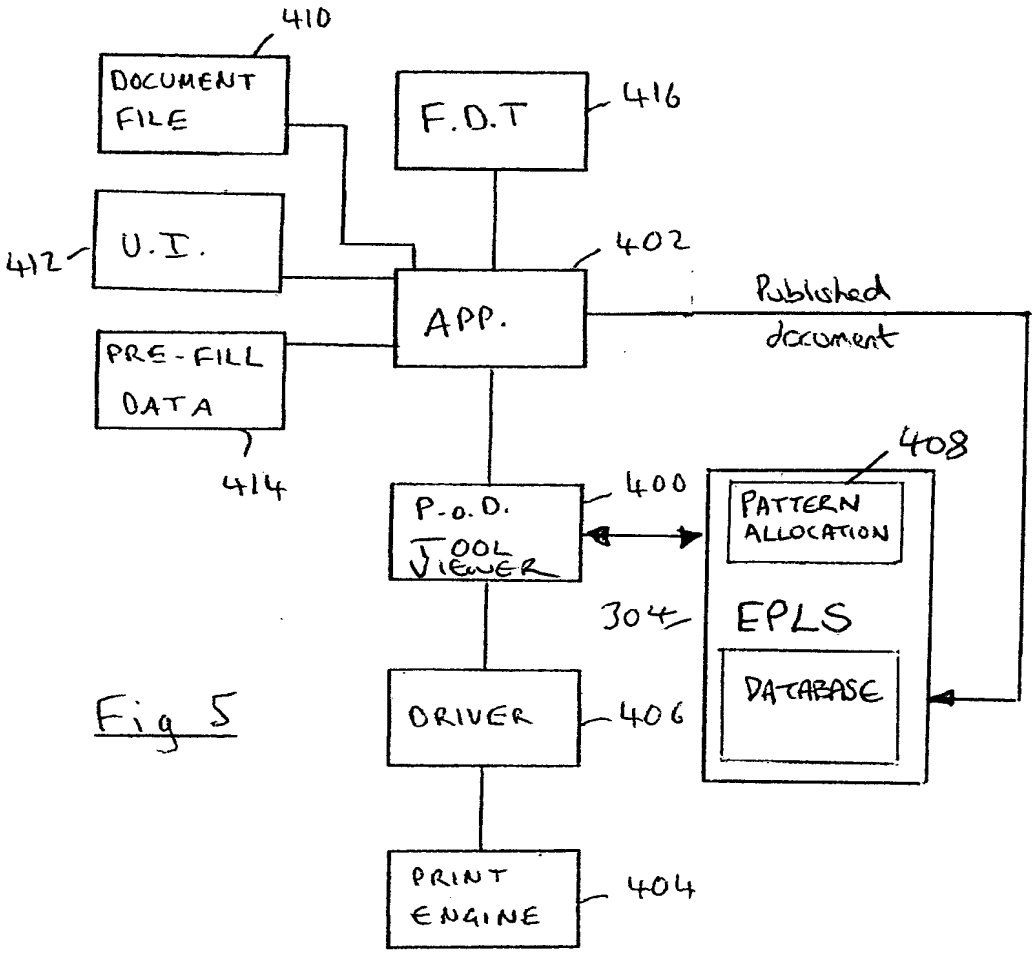

410
DOCUMENT FILE
F.D.T
416
U.I.
412
402
APP.
Published document
PRE-FILL DATA
414
408
P.O.D. TOOL VIEWER
400
PATTERN ALLOCATION
304
EPLS
DATABASE
DRIVER
406
PRINT ENGINE
404

Fig 5

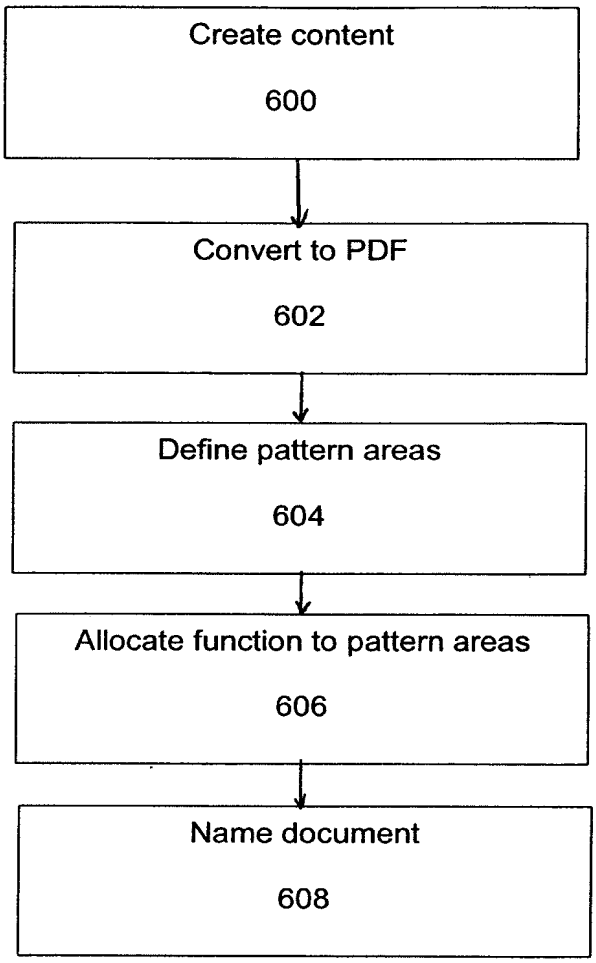

Create content
600
Convert to PDF
602
Define pattern areas
604
Allocate function to pattern areas
606
Name document
608

Fig 6

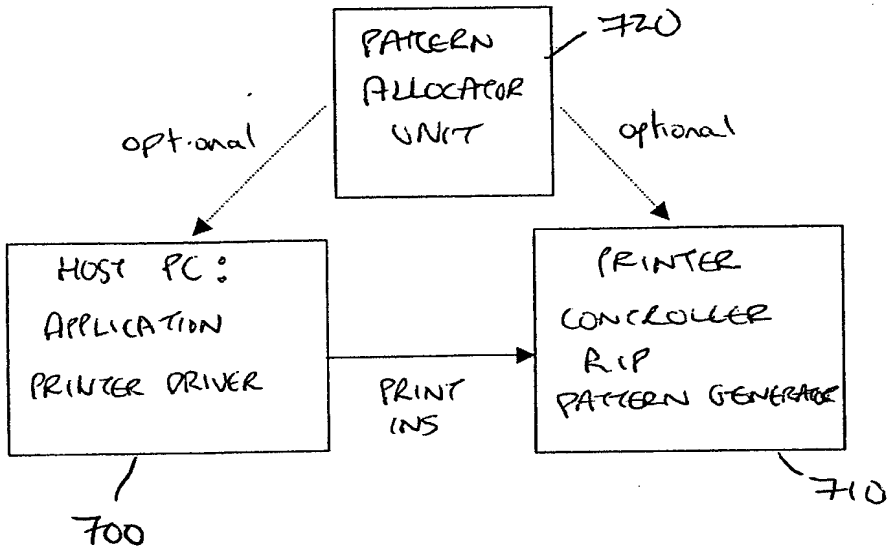

PATTERN ALLOCATOR UNIT
720
optional
optional
HOST PC: APPLICATION PRINTER DRIVER
PRINT INS
PRINTER CONTROLLER RIP PATTERN GENERATOR
700
710

Fig 7 (a)

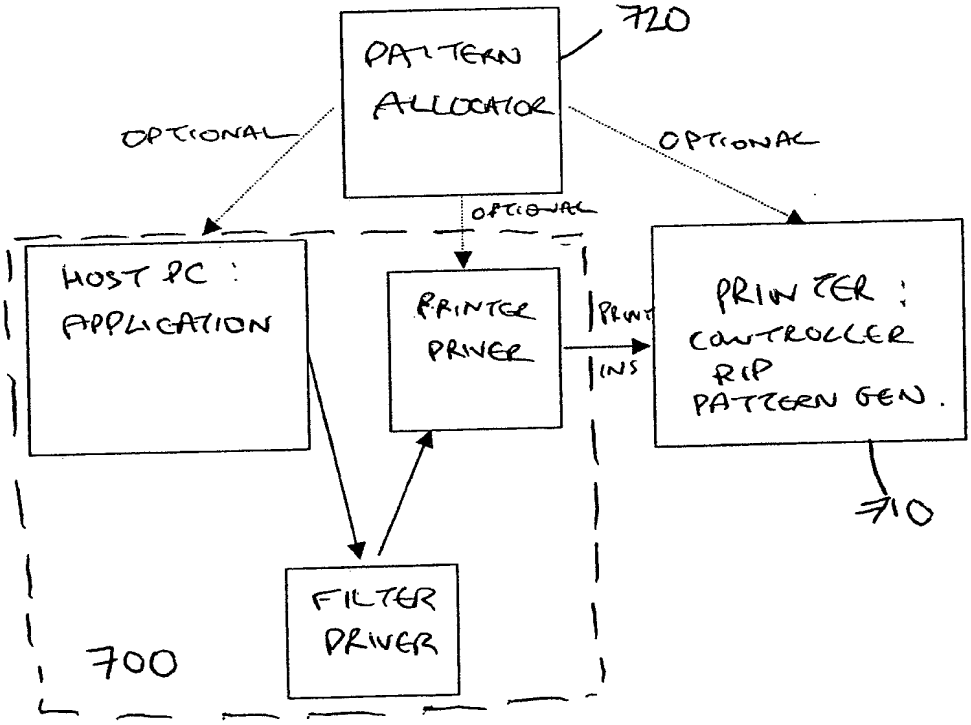

PATTERN ALLOCATOR
720
OPTIONAL
OPTIONAL
OPTIONAL
HOST PC : APPLICATION
PRINTER PRIVER
PRINT INS
PRINTER : CONTROLLER RIP PATTERN GEN.
710
FILTER PRIVER
700

Fig 7 (b)

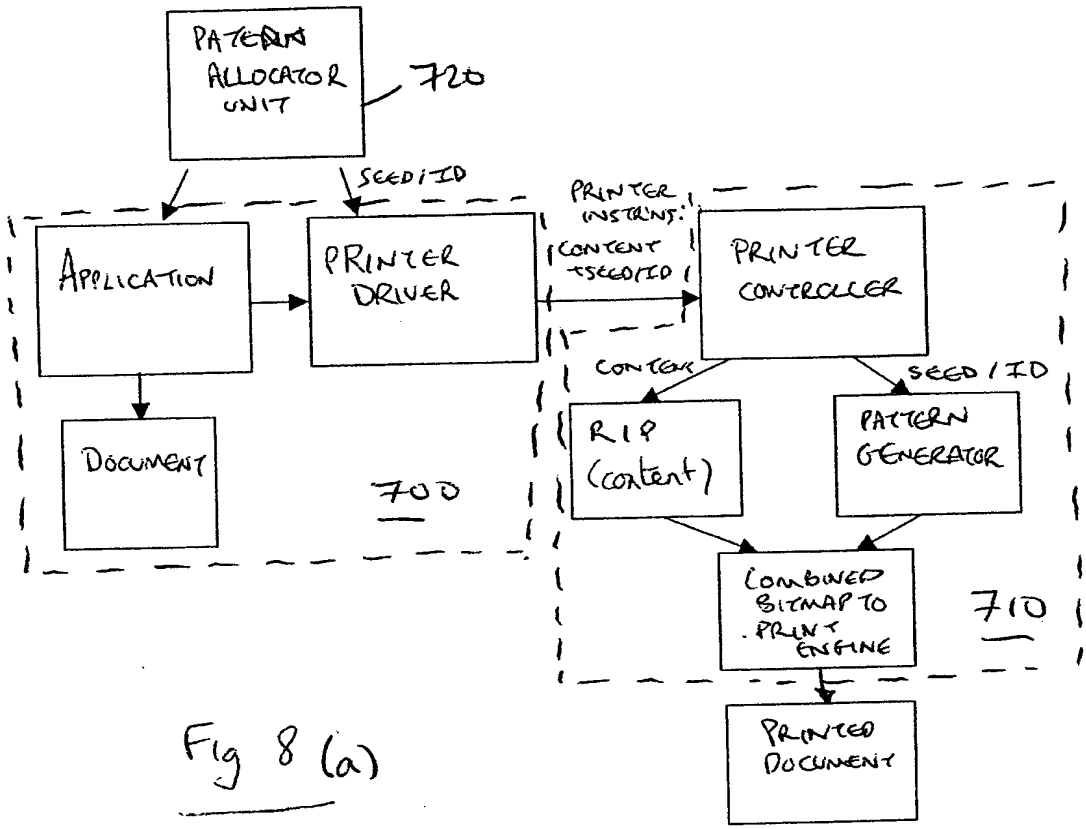


Fig 8 (a)

PRINT INSTRUCTIONS	
PCL	CONTENT INSTRUCTIONS
PJL	PATTERN INSTRUCTION (ID)

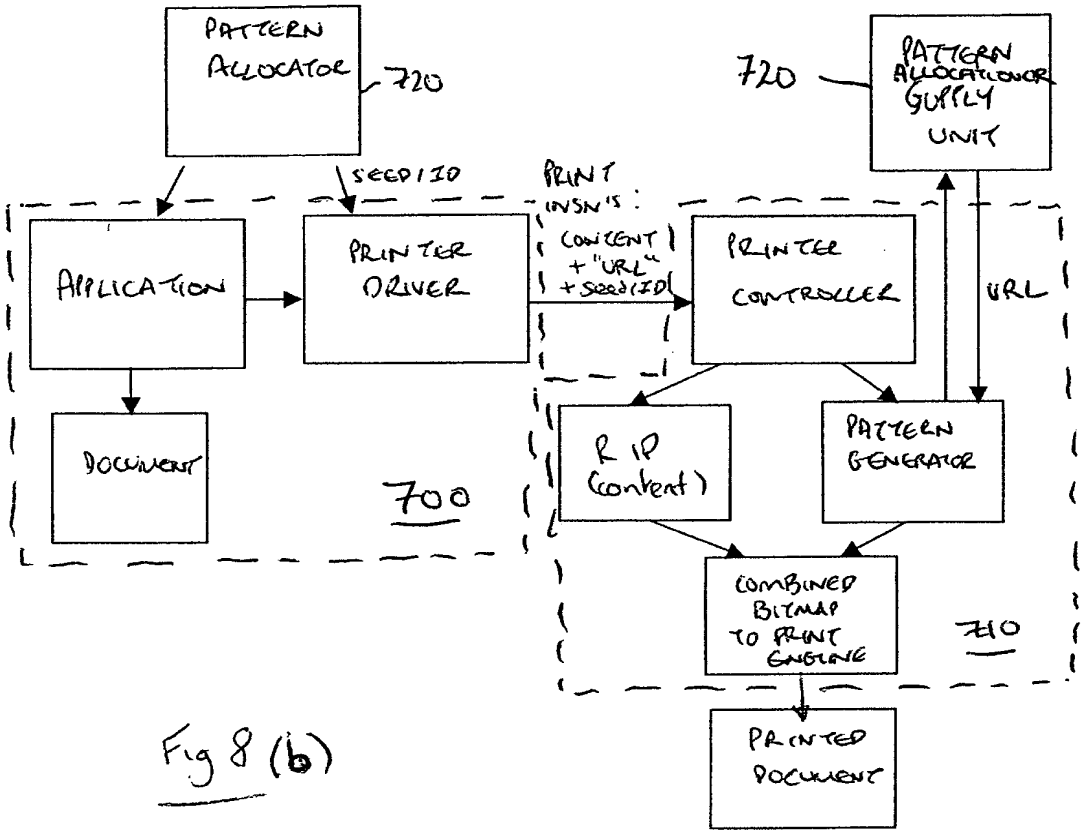


Fig 8 (b)

PRINT INSTRUCTIONS	
PCL	CONTENT INSTRUCTIONS
PSL	PATTERN INSTRUCTION = "URL and ID of pattern

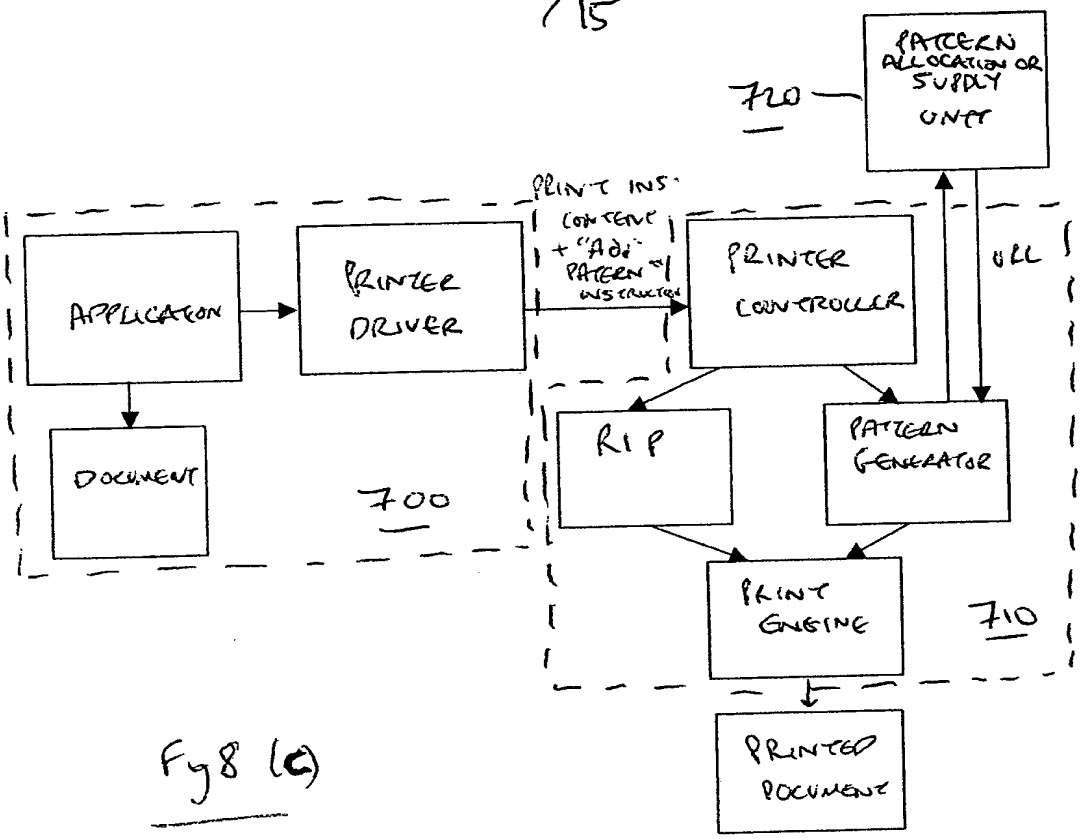


Fig 8 (c)

PRINT INSTRUCTION	
PCL	CONTENT INSTRUCTION
PJL	PATTERN INSTRUCTION = ADD PATTERN

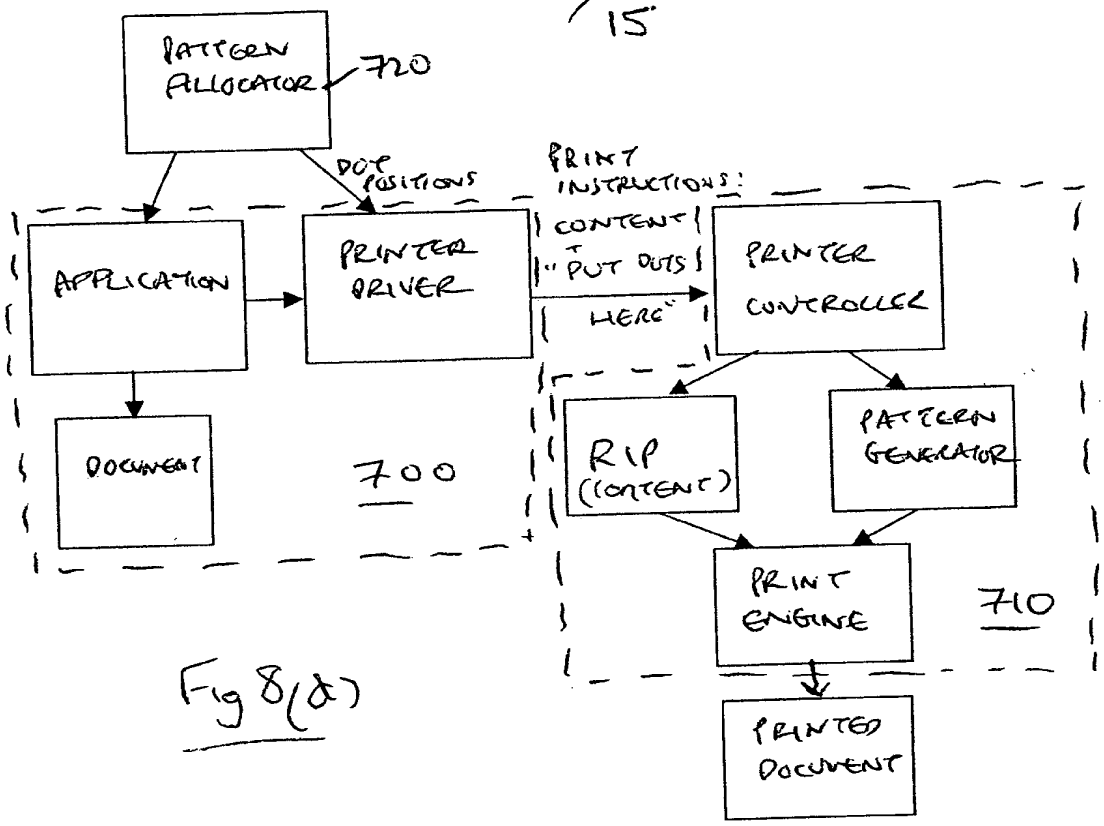


Fig 8(d)

PRINT INSTRUCTIONS	
PCL	CONTENT INSTRUCTIONS
PSL	PATTERN INSTRUCTION = INCOMPLETE PATTERN DESCRIPTION

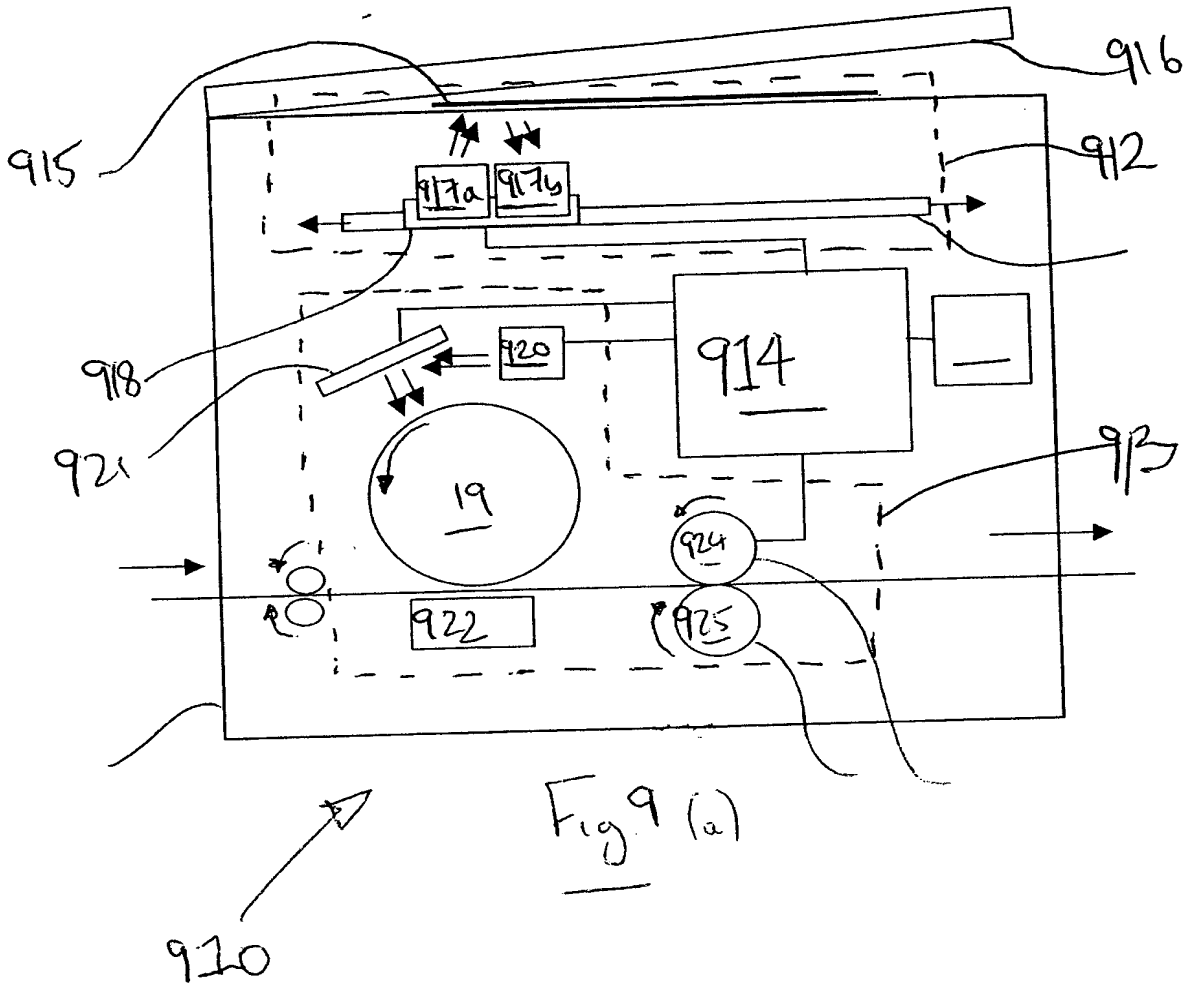


Fig 9 (a)

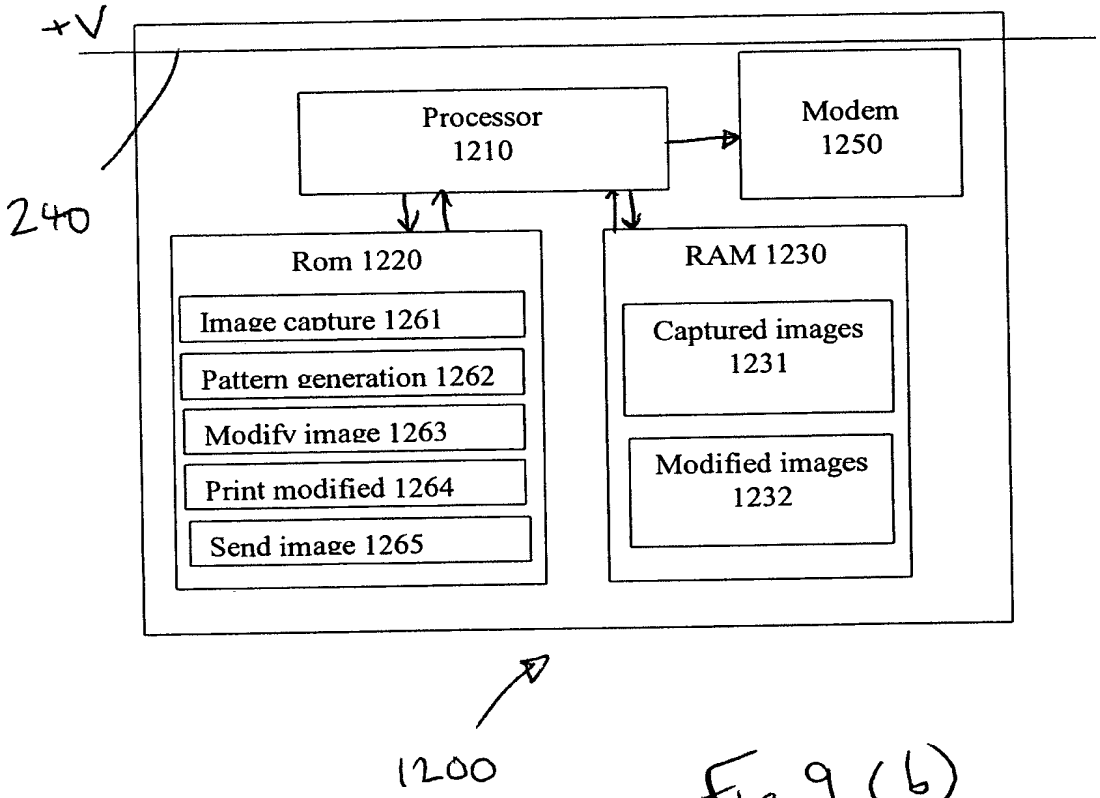

+V
240
Processor
1210
Modem
1250
Rom 1220
Image capture 1261
Pattern generation 1262
Modify image 1263
Print modified 1264
Send image 1265
RAM 1230
Captured images
1231
Modified images
1232
1200

Fig 9 (b)

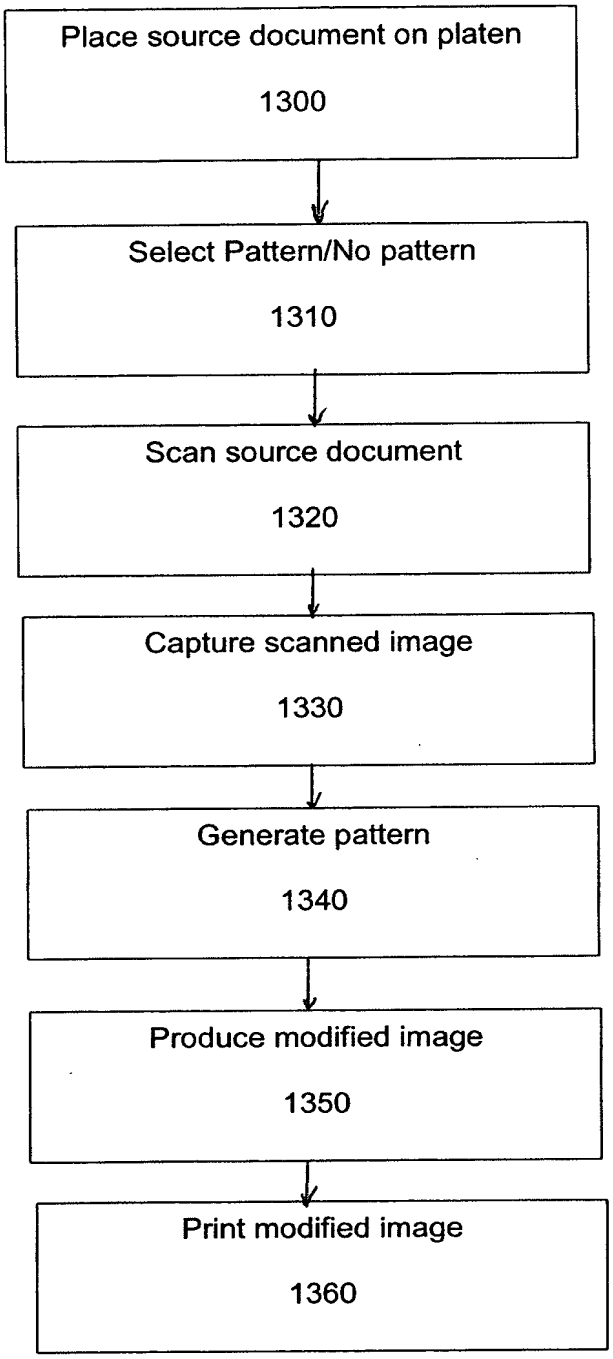

Place source document on platen
1300
Select Pattern/No pattern
1310
Scan source document
1320
Capture scanned image
1330
Generate pattern
1340
Produce modified image
1350
Print modified image
1360

Fig 10

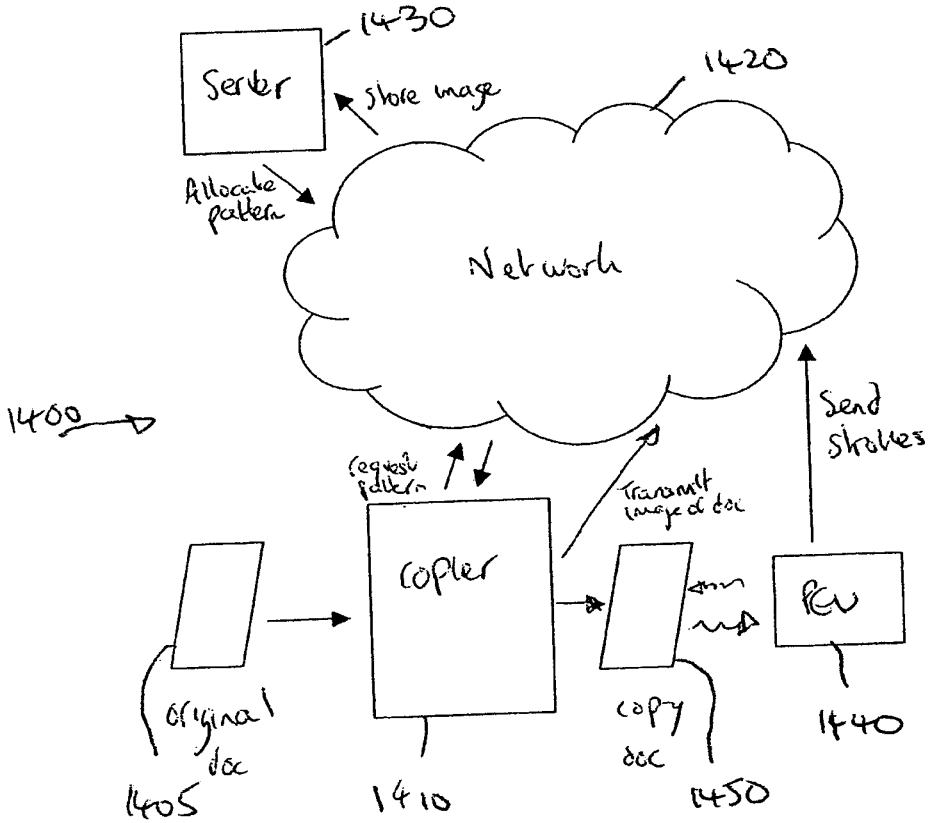

1430
Server
store image
1420
Allocate pattern
Network
1400
Send strokes
request pattern
Transmit image of doc
copier
PC
original doc
copy doc
1405
1410
1450
1440

Fig. 11

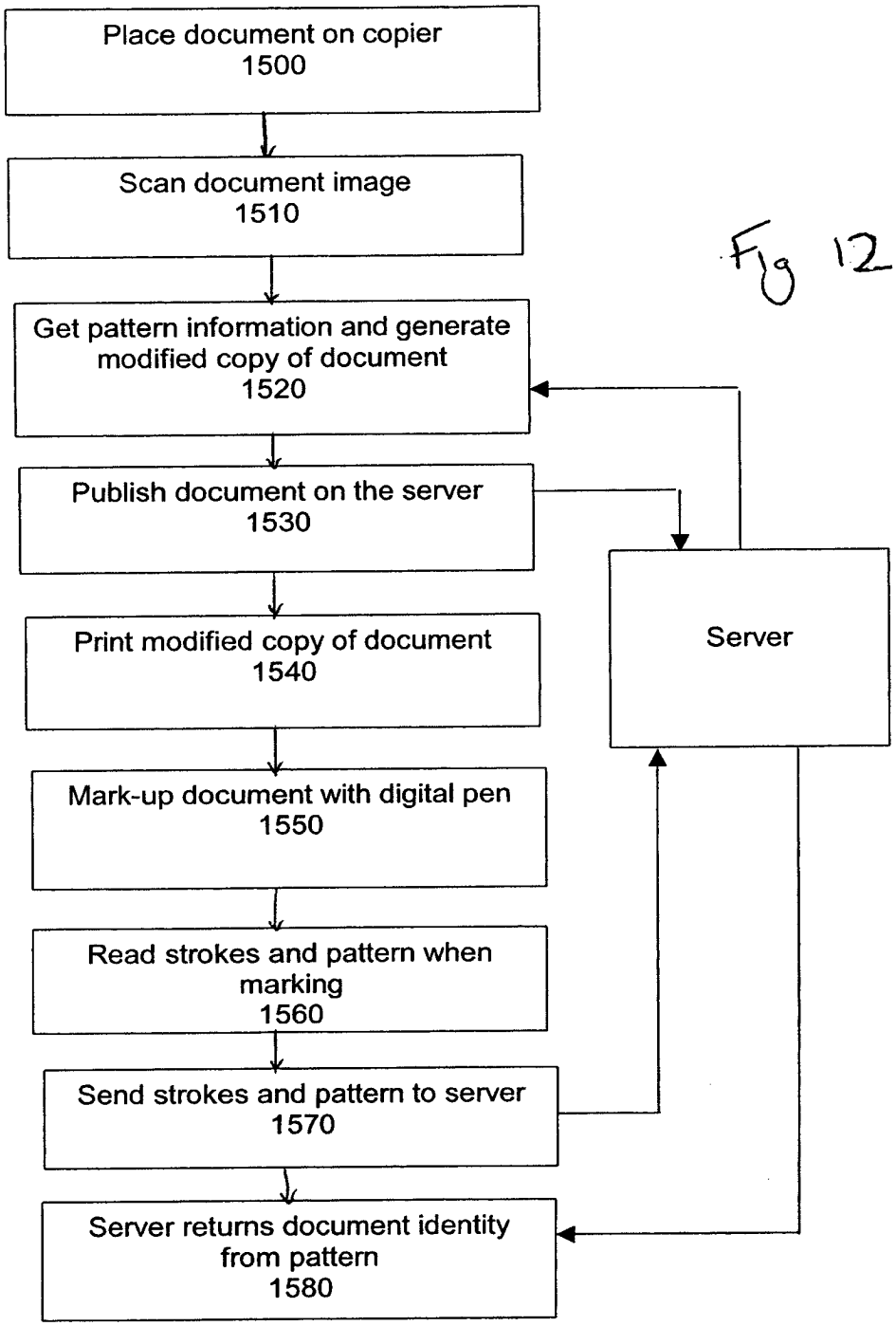

Place document on copier
1500
Scan document image
1510
Get pattern information and generate modified copy of document
1520
Publish document on the server
1530
Print modified copy of document
1540
Mark-up document with digital pen
1550
Read strokes and pattern when marking
1560
Send strokes and pattern to server
1570
Server returns document identity from pattern
1580
Server

Fig 12